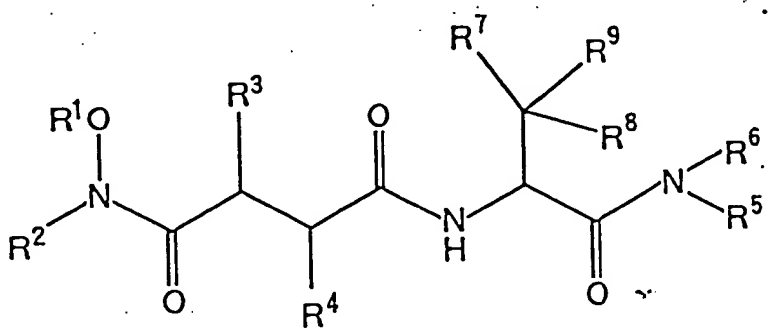
16.(Amended) A compound having the following formula (I):



(I)

wherein R^1, R^2, R^6, R^7 and R^8 are each hydrogen,

C1

1) R^3 is (C_1-C_9) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -A-B or -B,

wherein X, Y, A and B are selected from the following combinations:

① X is (C_1-C_6) alkylene, Y is -A-B, A is imino and B is amidino;

② X is (C_1-C_6) alkylene, Y is -B and B is amino;

③ X is phenylene, Y is -A-B, A is lower (C_1-C_4) alkylene-imino and B is lower (C_1-C_4) acylimidoyl;

④ X is (C_1-C_6) alkylene, Y is -A-B, A is imino and B is selected from the group consisting of lower (C_1-C_4) acylimidoyl and benzimidoyl;

⑤ X is phenylene, Y is -A-B, A is lower (C_1-C_4) alkyl and B is amino; and

⑥ X is phenylene, Y is -A-B, A is imino and B is selected from the group consisting of tetra-lower (C_1-C_4) alkyl bis(phosphono)methyl and tri-lower (C_1-C_4) alkyl

bis(phosphono)methyl;

2) R^3 is (C_1-C_9) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is hydroxy-substituted (C_1-C_6) alkyl or a nitrogen-containing heterocyclic radical,

R^9 is -X-Y, and Y is -A-B,

wherein X is (C_1-C_6) alkylene,

A is imino and

B is lower (C_1-C_4) acylimidoyl;

C1
Cont.

3) R^3 is (C_1-C_9) alkyl,

R^4 is (C_3-C_9) alkyl,

① R^5 is (C_3-C_7) cycloalkyl,

R^9 is -X-Y, and Y is -B,

wherein X is (C_1-C_6) alkylene and

B is amino; or

② R^5 is a nitrogen-containing heterocyclic radical,

R^9 is -X-Y, and Y is -A-B,

wherein X is phenylene,

A is lower (C_1-C_4) alkylene-imino and

B is lower (C_1-C_4) acylimidoyl;

4) R^3 is (C_1-C_9) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is carboxy-substituted lower (C_1-C_4) alkyl, di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl or hydroxy-substituted (C_1-C_6) alkyl, and

R^9 is -X-Y,

wherein X is phenylene and

Y is -A-B,

wherein A and B are selected from the following combinations:

① A is lower (C_1-C_4) alkylene-imino and
B is lower (C_1-C_4) acylimidoyl; and

② A is lower (C_1-C_4) alkylene and
B is amino;

5) R^3 is (C_1-C_9) alkyl,

R^4 is (C_3-C_9) alkyl,

① when R^5 is hydroxy-substituted (C_1-C_6) alkyl,

R^9 is -X-Y,

wherein X is phenylene and

Y is -A-B,

wherein

A is lower (C_1-C_4) alkylene-imino and

B is lower (C_1-C_4) acylimidoyl; or

② when R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y,

wherein X is (C_1-C_6) alkylene and

Y is -A-B,

wherein A is imino and

B is amidino;

6) R^3 is phenyl-lower (C_1-C_4) alkyl,

R^4 is (C_3-C_9) alkyl,

① R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is phenylene and

A is lower (C_1-C_4) alkylene and

B is amino; or

② R^5 is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl, hydroxy-substituted (C_1-C_6) alkyl or lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is (C_1-C_6) alkylene and

A is imino and

B is lower (C_1-C_4) acylimidoyl;

7) R^3 is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, carboxy-substituted phenyl-lower (C_1-C_4) alkyl, amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, hydroxy-substituted phenyl-lower (C_1-C_4) alkyl, lower (C_1-C_4) alkoxycarbonyl-substituted phenyl-lower (C_1-C_4) alkyl, oxygen-containing (C_1-C_8) straight chain or branched alkyl, or hydroxy-substituted (C_1-C_8) alkyl;

C1 cont.

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -B,

wherein X is (C_1-C_6) alkylene, and

B is amino;

8) ① R^3 is (C_1-C_9) alkyl, and

R^4 is hydroxy-substituted (C_3-C_8) alkyl, or

② R^3 is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, and

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -B,

wherein X is (C_1-C_6) alkylene and

B is amino;

9) R^3 is amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, lower (C_1-C_4) acylimidoylimino-substituted (C_1-C_6) alkyl, lower (C_1-C_4) alkylimino-substituted (C_1-C_6) alkyl, nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkylimino-substituted (C_1-C_6) alkyl, or isopropyliminomethylbenzyl,

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is hydrogen;

C1
004.

10) R^3 is aryloxy-substituted lower (C_1-C_4) alkyl, (C_3-C_7) cycloalkyl-substituted lower (C_1-C_4) alkyl, arylsulfonamido-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, alkylsulfonamido-substituted lower(C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is (C_1-C_6) alkylene,

A is imino and

B is amidino;

11) R^3 is phenyl-lower (C_1-C_4) alkyl,

R^5 is lower (C_1-C_4) alkyl,

(1) when R^4 is (C_3-C_9) alkyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is (C_1-C_6) alkylene,
A is imino and
B is amidino;

② when R^4 is unsubstituted or optionally substituted aryl-lower (C_1-C_4) alkyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is (C_1-C_6) alkylene,
A is imino and
B is amidino; or

C1 C004. ③ when R^4 is (C_3-C_9) alkyl,
R^9 is -X-Y, and Y is -B,
wherein X is (C_1-C_6) alkylene, and
B is amino;

12) R^3 is amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^4 is (C_3-C_9) alkyl,
R^5 is lower (C_1-C_4) alkyl,
R^9 is -X-Y, and Y is -B,
wherein X is (C_1-C_6) alkylene, and
B is amino;

13) R^3 is amino-substituted phenyl-lower (C_1-C_4) alkyl,
R^4 is (C_3-C_9) alkyl,
R^5 is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is (C_1-C_6) alkylene, and
A is imino and
B is lower (C_1-C_4) acylimidoyl;

14) R^3 is guanidino-substituted phenyl-lower (C_1-C_4) alkyl, guanidino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -B,
wherein X is (C_1-C_6) alkylene, and
B is amino; or

C1 cont.

15) R^3 is amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^4 is (C_3-C_9) alkyl,

R^5 is lower (C_1-C_4) alkyl,

R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is lower (C_1-C_4) alkylene, and
B is amino;

or a pharmaceutically acceptable salt or solvate thereof.

17.(Amended) The compound according to claim 16 wherein R^1, R^2, R^6, R^7 and R^8 are each hydrogen,

1) R^3 is methyl,
R^4 is isobutyl,
R^5 is methyl,
R^9 is -X-Y and Y is -A-B or -B
wherein X, Y, A and B are selected from the following combinations:

① X is methylene or ethylene, Y is -A-B, A is imino and B is amidino;

② X is ethylene or trimethylene, Y is -B and B is amino;

③ X is phenylene, Y is -A-B, A is methyleneimino and B is acetimidoyl;

④ X is trimethylene, Y is -A-B, A is imino and B is selected from the group consisting of acetimidoyl, propionimidoyl and benzimidoyl;

⑤ X is phenylene, Y is -A-B, A is methylene and B is amino; and

⑥ X is phenylene, Y is -A-B, A is imino and B is selected from the group consisting of
tetra-ethyl bis(phosphono)methyl,
tetra-methyl bis(phosphono)methyl,
tri-ethyl bis(phosphono)methyl and
tri-methyl bis(phosphono)methyl;

2) R^3 is methyl,
R^4 is isobutyl,
R^5 is 2-hydroxy-1-methylethyl or piperidyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is trimethylene,
A is imino and
B is acetimidoyl;

3) R^3 is methyl,
R^4 is isobutyl,
① R^5 is cyclopropyl,
R^9 is -X-Y, and Y is -B,
wherein X is ethylene and
B is amino;

② R^5 is morpholino,
R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is methyleneimino and
B is acetimidoyl;

Cl
C004.

4) R^3 and R^4 are each isobutyl,
R^5 is 2-carboxyethyl, 2-dimethylaminoethyl or 2-hydroxyethyl,
R^9 is -X-Y,
wherein X is phenylene and
Y is -A-B,
wherein A and B are selected from the following combinations:
① A is methyleneimino and
B is acetimidoyl; and
② A is methylene and
B is amino;

5) R^3 and R^4 are each isobutyl,
① when R^5 is 2-hydroxy-1,1-dimethylethyl,
R^9 is -X-Y,
wherein X is phenylene and
Y is -A-B,
wherein A is methyleneimino and
B is acetimidoyl;

② when R^5 is methyl,
R^9 is -X-Y,
wherein X is methylene or ethylene and
Y is -A-B,
wherein A is imino and
B is amidino;

6) R^3 is phenylpropyl,
R^4 is isobutyl,
① R^5 is methyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene and
A is methylene and
B is amino; or

② R^5 is 2-dimethylaminoethyl, 2-hydroxyethyl or methyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is trimethylene,
A is imino and
B is acetimidoyl;

7) R^3 is morpholinopropyl, carboxyphenylpropyl, aminomethylphenylpropyl, hydroxyphenylpropyl, methoxycarbonylphenylpropyl, piperidinylpropyl, iso-butyloxyethyl, butoxyethyl, ethoxyethoxyethyl or hydroxyoctyl,
R^4 is isobutyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is trimethylene and
B is amino;

8) ① R^3 is isobutyl, and
R^4 is hydroxyoctyl, or
② R^3 is (3,4,4-trimethyl-2,5-dioxo-imidazolidin-1-yl)-propyl, and
R^4 is isopropyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is trimethylene and
B is amino;

9) R^3 is aminomethylphenylpropyl, aminomethylbenzyl, acetimidoyliminopentyl, isopropyliminopentyl, (pyridin-4-ylmethylimino)pentyl or isopropyliminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is hydrogen;

C1 cont.

10) R^3 is phenoxyethyl, cyclohexylpropyl, toluenesulfonamido-methylbenzyl, methanesulfonamidomethylbenzyl or phthalimidomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -A-B,
wherein X is ethylene,
A is imino and
B is amidino;

11) R^3 is phenylpropyl,
R^5 is methyl,
① when R^4 is isobutyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is methylene,
A is imino and
B is amidino;

② when R^4 is naphthylmethyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is ethylene,
A is imino and
B is amidino; or

③ when R^4 is isopropyl,
R^9 is -X-Y, and Y is -B,
wherein X is trimethylene, and
B is amino;

12) R^3 is aminomethylphenylpropyl,
① R^4 is isobutyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is methylene or ethylene, and
B is amino;

② R^4 is isopropyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is ethylene, and
B is amino;

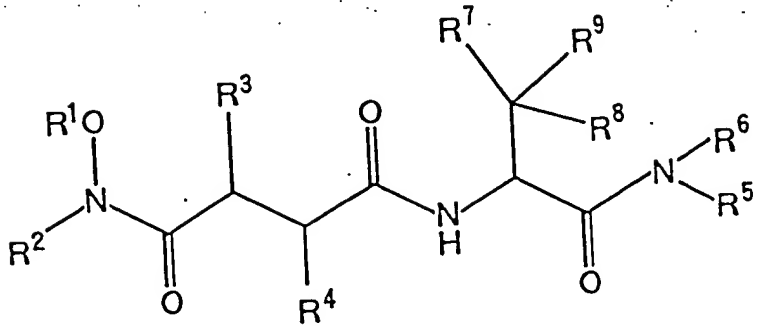
13) R^3 is aminophenylpropyl,
R^4 is isobutyl,
R^5 is dimethylaminoethyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is trimethylene, and
A is imino and
B is acetimidoyl;

14) R^3 is guanidinophenylpropyl, guanidinomethylphenylpropyl or aminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -B,
wherein X is ethylene, and
B is amino; or

Cl
cont.

15) R^3 is aminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is methylene, and
B is amino.

18. (Amended) A compound having the following formula (I):



(I)

wherein R^1, R^2, R^6, R^7 and R^8 are each hydrogen,

C1 cont.

1) R^3 is methyl,
R^4 is isobutyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -A-B or -B,
wherein X, Y, A and B are selected from the following combinations:

① X is (C_1-C_6) alkylene, Y is -A-B, A is imino and B is amidino;

② X is (C_1-C_6) alkylene, Y is -B and B is amino;

③ X is phenylene, Y is -A-B, A is methyleneimino and B is acetimidoyl;

④ X is trimethylene, Y is -A-B, A is imino and B is selected from the group consisting of lower (C_1-C_4) acylimidoyl and benzimidoyl;

⑤ X is phenylene, Y is -A-B, A is methylene and B is amino; and

⑥ X is phenylene, Y is -A-B, A is imino and B is selected from the group consisting of tetra-lower (C_1-C_4) alkyl bis(phosphono)methyl and tri-lower (C_1-C_4) alkyl bis(phosphono)methyl;

2) R^3 is methyl,
R^4 is isobutyl,
R^5 is 2-hydroxy-1-methylethyl or piperidyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is trimethylene,
A is imino and
B is acetimidoyl;

3) R^3 is methyl,
R^4 is isobutyl,
① R^5 is cyclopropyl,
R^9 is -X-Y, and Y is -B,
wherein X is ethylene and
B is amino;

C1
C004.

② R^5 is morpholino,
R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is methyleneimino and
B is acetimidoyl;

4) R^3 and R^4 are each isobutyl,
R^5 is 2-carboxyethyl, 2-dimethylaminoethyl or 2-hydroxyethyl,
R^9 is -X-Y,
wherein X is phenylene and
Y is -A-B,
wherein A and B are selected from the following combinations:
① A is methyleneimino and
B is acetimidoyl; and
② A is methylene and
B is amino;

R^3 and R^4 are each isobutyl,

① when R^5 is 2-hydroxy-1,1-dimethylethyl,

R^9 is -X-Y,

wherein X is phenylene and

Y is -A-B,

wherein A is methyleneimino and

B is acetimidoyl;

② when R^5 is methyl,

R^9 is -X-Y,

wherein X is (C_1-C_6) alkylene and

Y is -A-B,

wherein A is imino and

B is amidino;

C1 COOH

6) R^3 is phenylpropyl,

R^4 is isobutyl,

① R^5 is methyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is phenylene and

A is methylene and

B is amino; or

② R^5 is 2-dimethylaminoethyl, 2-hydroxyethyl or methyl,

R^9 is -X-Y, and Y is -A-B,

wherein X is trimethylene,

A is imino and

B is acetimidoyl;

7) R^3 is nitrogen-containing heterocyclic radical-substituted propyl, carboxyphenylpropyl, aminomethylphenylpropyl, hydroxyphenylpropyl, methoxycarbonylphenylpropyl, oxygen-containing (C_1-C_8) straight chain or branched alkyl or hydroxyoctyl,

R^4 is isobutyl,

R^5 is methyl,

R^9 is -X-Y, and Y is -B,

wherein X is trimethylene and
B is amino;

8) ① R^3 is isobutyl, and
R^4 is hydroxyoctyl, or
② R^3 is (3,4,4-trimethyl-2,5-dioxo-imidazolidin-1-yl)-propyl, and
R^4 is isopropyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is trimethylene and
B is amino;

Cl
Count

9) R^3 is amino-substituted methyl-substituted phenyl-lower (C_1-C_4) alkyl, acetimidoyliminopentyl, isopropyliminopentyl, (pyridin-4-ylmethylimino)pentyl or isopropyliminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is hydrogen;

10) R^3 is phenoxyethyl, cyclohexylpropyl, toluenesulfonamido-methylbenzyl, methanesulfonamidomethylbenzyl or phthalimidomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -A-B,
wherein X is ethylene,
A is imino and
B is amidino;

11) R^3 is phenylpropyl,
R^5 is methyl,
① when R^4 is isobutyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is methylene,
A is imino and
B is amidino;

② when R^4 is naphthylmethyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is ethylene,
A is imino and
B is amidino; or

③ when R^4 is isopropyl,
R^9 is -X-Y, and Y is -B,
wherein X is trimethylene, and
B is amino;

12) R^3 is aminomethylphenylpropyl,
R^4 is (C_3-C_9) alkyl,
R^5 is methyl,
R^9 is -X-Y, and Y is -B,
wherein X is (C_1-C_6) alkylene, and
B is amino;

13) R^3 is aminophenylpropyl,
R^4 is isobutyl,
R^5 is dimethylaminoethyl,
R^9 is -X-Y, and Y is -A-B,
wherein X is trimethylene, and
A is imino and
B is acetimidoyl;

14) R^3 is guanidinophenylpropyl, guanidinomethylphenylpropyl or aminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -B,
wherein X is ethylene, and
B is amino; or

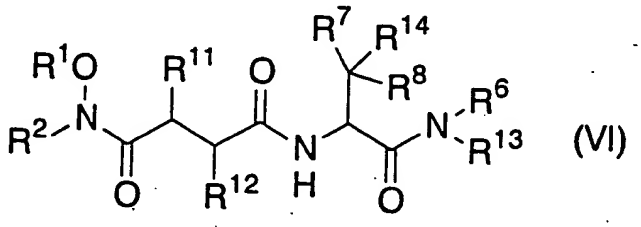
Cl
cost

15) R^3 is aminomethylbenzyl,
R^4 is isobutyl,
R^5 is methyl, and
R^9 is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is methylene, and
B is amino;

or a pharmaceutically acceptable salt or solvate thereof.

Kindly add the following new claims.

19. A compound having the following formula (VI):



(VI)

wherein R^1 is unsubstituted or optionally substituted aralkyl, and R^2, R^6, R^7 and R^8 are each hydrogen,

1) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -A-B, -A-E or -E,
wherein X, Y, A, B and E are selected from the following combinations:

① X is (C_1-C_6) alkylene, Y is -A-E, A is imino and E is protected amidino;

② X is (C_1-C_6) alkylene, Y is -E and E is protected amino;

③ X is phenylene, Y is -A-B, A is lower (C_1-C_4) alkylene-imino and B is lower (C_1-C_4) acylimidoyl;

④ X is (C_1-C_6) alkylene, Y is -A-B, A is imino and B is selected from the group consisting of lower (C_1-C_4) acylimidoyl and benzimidoyl;

⑤ X is phenylene, Y is -E, E is cyano; and

⑥ X is phenylene, Y is -A-B, A is imino and B is tetra-lower (C_1-C_4) alkyl bis(phosphono)methyl;

2) R^{11} is (C_1-C_9) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is hydroxy-substituted (C_1-C_6) alkyl or a nitrogen-containing heterocyclic radical,

R^{14} is -X-Y, and Y is -A-B,

wherein X is (C_1-C_6) alkylene,

A is imino and

B is lower (C_1-C_4) acylimidoyl;

3) R^{11} is (C_1-C_9) alkyl,

R^{12} is (C_3-C_9) alkyl,

① R^{13} is (C_3-C_7) cycloalkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene and

E is protected amino; or

② R^{13} is a nitrogen-containing heterocyclic radical,

R^{14} is -X-Y, and Y is -A-B,

wherein X is phenylene,

A is lower (C_1-C_4) alkylene-imino and

B is lower (C_1-C_4) acylimidoyl;

C2 Cont.

4) R^{11} is (C_1-C_9) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is protected carboxy-substituted lower (C_1-C_4) alkyl, di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl or protected hydroxy-substituted lower (C_1-C_4) alkyl, and

R^{14} is -X-Y,

wherein X is phenylene and

Y is -A-B or -A-E,

wherein A, B and E are selected from the following combinations:

① Y is -A-B, A is lower (C_1-C_4) alkylene-imino and B is lower (C_1-C_4) acylimidoyl; and

② Y is -A-E, A is lower (C_1-C_4) alkylene and
E is cyano;

5) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,
① when R^{13} is hydroxy-substituted (C_1-C_6) alkyl,
R^{14} is -X-Y,
wherein X is phenylene and
Y is -A-B,
wherein
A is lower (C_1-C_4) alkylene-imino and
B is lower (C_1-C_4) acylimidoyl; or

C2 cont.

② when R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y,
wherein X is (C_1-C_6) alkylene and
Y is -A-E,
wherein A is imino and
E is protected amidino;

6) R^{11} is phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
① R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene and
E is cyano; or
② R^{13} is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl, protected hydroxy-substituted lower (C_1-C_4) alkyl or lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -A-B,
wherein X is (C_1-C_6) alkylene and
A is imino and
B is lower (C_1-C_4) acylimidoyl;

7) R^{11} is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, protected carboxy-substituted phenyl-lower (C_1-C_4) alkyl, protected amino-substituted phenyl-lower (C_1-C_4) alkyl, protected hydroxy-substituted phenyl-lower (C_1-C_4) alkyl, lower (C_1-C_4) alkoxycarbonyl-substituted phenyl-lower (C_1-C_4) alkyl, oxygen-containing (C_1-C_8) straight chain or branched alkyl, or hydroxy-substituted (C_1-C_8) alkyl;

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene and

E is protected amino;

C2 cont.

8) ① R^{11} is (C_1-C_9) alkyl, and

R^{12} is protected hydroxy-substituted (C_1-C_8) alkyl, or

② R^{11} is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, and

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene and

E is protected amino;

9) R^{11} is cyano-substituted phenyl-lower (C_1-C_4) alkyl, lower (C_1-C_4) acylimidoylimino-substituted (C_1-C_6) alkyl, lower (C_1-C_4) alkylimino-substituted (C_1-C_6) alkyl, nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkylimino-substituted (C_1-C_6) alkyl, or isopropyliminomethylbenzyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is hydrogen;

10) R^{11} is aryloxy-substituted lower (C_1-C_4) alkyl, (C_3-C_7) cycloalkyl-substituted lower (C_1-C_4) alkyl, arylsulfonamido-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, alkylsulfonamido-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino;

C2 cont.

11) R^{11} is phenyl-lower (C_1-C_4) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

① when R^{12} is (C_3-C_9) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino;

② when R^{12} is unsubstituted or optionally substituted aryl-lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino; or

③ when R^{12} is (C_3-C_9) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene, and

E is protected amino;

12) R^{11} is protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene, and
E is protected amino;

13) R^{11} is protected amino-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -A-B,
wherein X is (C_1-C_6) alkylene, and
A is imino and
B is lower (C_1-C_4) acylimidoyl;

C2 cont.

14) R^{11} is protected guanidino-substituted phenyl-lower (C_1-C_4) alkyl, protected guanidino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene, and
E is protected amino; or

15) R^{11} is protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene,

E is cyano;

or a salt thereof.

20. The compound according to claim 19, wherein R^1 is benzyl, and R^2, R^6, R^7 and R^8 are each hydrogen,

1) R^{11} is methyl,
R^{12} is isobutyl,
R^{13} is methyl,
R^{14} is -X-Y and Y is -A-B, -A-E, or -E
wherein X, Y, A, B and E are selected from the following combinations:

C2 cont.

① X is methylene or ethylene, Y is -A-E, A is imino and E is protected amidino;

② X is ethylene or trimethylene, Y is -E and E is protected amino;

③ X is phenylene, Y is -A-B, A is methyleneimino and B is acetimidoyl;

④ X is trimethylene, Y is -A-B, A is imino and B is selected from the group consisting of acetimidoyl, propionimidoyl and benzimidoyl;

⑤ X is phenylene, Y is -E, E is cyano; and

⑥ X is phenylene, Y is -A-B, A is imino and B is tetra-ethyl bis(phosphono)methyl, or tetra-methyl bis(phosphono)methyl;

2) R^{11} is methyl,
R^{12} is isobutyl,
R^{13} is 2-hydroxy-1-methylethyl or piperidyl,
R^{14} is -X-Y, and Y is -A-B,
wherein X is trimethylene,

A is imino and
B is acetimidoyl;

3) R^{11} is methyl,
R^{12} is isobutyl,
① R^{13} is cyclopropyl,
R^{14} is -X-Y, and Y is -E,
wherein X is ethylene and
E is protected amino; or
② R^{13} is morpholino,
R^{14} is -X-Y, and Y is -A-B,
wherein X is phenylene,
A is methyleneimino and
B is acetimidoyl;

C2 cont.

4) R^{11} and R^{12} are each isobutyl,
R^{13} is protected 2-carboxyethyl, 2-dimethylaminoethyl or protected 2-hydroxyethyl,
R^{14} is -X-Y,
wherein X is phenylene and
Y is -A-B or -E,
wherein A, B and E are selected from the following combinations:
① Y is -A-B, A is methyleneimino, and
B is acetimidoyl; and
② Y is -E, and
E is cyano;

5) R^{11} and R^{12} are each isobutyl,
① when R^{13} is 2-hydroxy-1,1-dimethylethyl,
R^{14} is -X-Y,
wherein X is phenylene and

Y is -A-B,

wherein A is methyleneimino and

B is acetimidoyl;

② when R^{13} is methyl,

R^{14} is -X-Y,

wherein X is methylene or ethylene and

Y is -A-E,

wherein A is imino and

E is protected amidino;

6) R^{11} is phenylpropyl,

R^{12} is isobutyl,

① R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is phenylene and

E is cyano; or

② R^{13} is 2-dimethylaminoethyl, protected 2-hydroxyethyl or methyl,

R^{14} is -X-Y, and Y is -A-B,

wherein X is trimethylene,

A is imino and

B is acetimidoyl;

7) R^{11} is morpholinopropyl, protected carboxyphenylpropyl, protected aminomethylphenylpropyl, protected hydroxyphenylpropyl, methoxycarbonylphenylpropyl, piperidinylpropyl, iso-butyloxyethyl, butoxyethyl, ethoxyethoxyethyl or protected hydroxyoctyl,

R^{12} is isobutyl,

R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is trimethylene and

E is protected amino;

8) ① R^{11} is isobutyl, and
R^{12} is protected hydroxyoctyl, or
② R^{11} is (3,4,4-trimethyl-2,5-dioxo-imidazolidin-1-yl)-propyl, and
R^{12} is isopropyl,
R^{13} is methyl,
R^{14} is -X-Y, and Y is -E,
wherein X is trimethylene and
E is protected amino;

9) R^{11} is protected aminomethylphenylpropyl, protected aminomethylbenzyl or protected aminopentyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is hydrogen;

C2 cont.

10) R^{11} is phenoxyethyl, cyclohexylpropyl, toluenesulfonamido-methylbenzyl, methanesulfonamidomethylbenzyl, phthalimidomethylbenzyl, cyano-phenylpropyl or cyano-benzyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is -X-Y, and Y is -A-E,
wherein X is ethylene,
A is imino and
E is protected amidino;

11) R^{11} is phenylpropyl,
R^{13} is methyl,
① when R^{12} is isobutyl,
R^{14} is -X-Y, and Y is -A-E,

wherein X is methylene,
A is imino and
E is protected amidino;

② when R^{12} is naphthylmethyl,
R^{14} is -X-Y, and Y is -A-E,
wherein X is ethylene,
A is imino and
E is protected amidino; or

③ when R^{12} is isopropyl,
R^{14} is -X-Y, and Y is -E,
wherein X is trimethylene, and
E is protected amino;

C2 cont.

12) R^{11} is protected aminomethylphenylpropyl,

① R^{12} is isobutyl,
R^{13} is methyl,
R^{14} is -X-Y, and Y is -E,
wherein X is methylene or ethylene, and
E is protected amino; or

② R^{12} is isopropyl,
R^{13} is methyl,
R^{14} is -X-Y, and Y is -E,
wherein X is ethylene, and
E is protected amino;

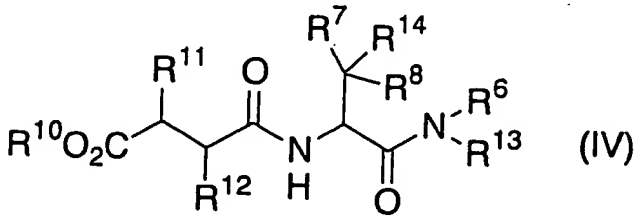
13) R^{11} is protected aminophenylpropyl,
R^{12} is isobutyl,
R^{13} is dimethylaminoethyl,
R^{14} is -X-Y, and Y is -A-B,
wherein X is trimethylene, and
A is imino and
B is acetimidoyl;

14) R^{11} is protected guanidinophenylpropyl, protected guanidinomethylphenylpropyl or protected aminomethylbenzyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is -X-Y, and Y is -E,
wherein X is ethylene, and
E is protected amino; or

15) R^{11} is protected aminomethylbenzyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene,
E is cyano.

C2 cont.

21. A compound having the following formula (IV):



(IV)

wherein R^{10} is (C_1-C_6) alkyl, and R^6, R^7 and R^8 are each hydrogen,

1) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -A-B, -A-E or -E,
wherein X, Y, A, B and E are selected from the following

combinations:

① X is (C_1-C_6) alkylene, Y is -A-E, A is imino and E is protected amidino;

② X is (C_1-C_6) alkylene, Y is -E and E is protected amino;

③ X is phenylene, Y is -E, and E is cyano; and

④ X is phenylene, Y is -A-B, A is imino and B is tetra-lower (C_1-C_4) alkyl bis(phosphono)methyl;

2) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is hydroxy-substituted (C_1-C_6) alkyl or a nitrogen-containing heterocyclic radical,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene,
E is protected amino;

C2
COOH

3) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,

① R^{13} is (C_3-C_7) cycloalkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene and
E is protected amino; or

② R^{13} is a nitrogen-containing heterocyclic radical,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene and E is cyano;

4) R^{11} is (C_1-C_9) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is protected carboxy-substituted lower (C_1-C_4) alkyl, di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl or protected hydroxy-substituted lower (C_1-C_4) alkyl, and
R^{14} is -X-Y,

wherein X is phenylene and

Y is -E, and E is cyano;

5) R^{11} is (C_1-C_9) alkyl,

R^{12} is (C_3-C_9) alkyl,

① when R^{13} is protected hydroxy-substituted lower (C_1-C_4) alkyl,

R^{14} is -X-Y,

wherein X is phenylene and

Y is -E, and E is cyano;

② when R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y,

wherein X is (C_1-C_6) alkylene and

Y is -A-E,

wherein A is imino and

E is protected amidino;

C2 cont.

6) R^{11} is phenyl-lower (C_1-C_4) alkyl,

R^{12} is (C_3-C_9) alkyl,

① R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is phenylene and

E is cyano; or

② R^{13} is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl, protected hydroxy-substituted lower (C_1-C_4) alkyl or lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene, and E is protected amino;

7) R^{11} is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, protected carboxy-substituted phenyl-lower (C_1-C_4) alkyl, protected amino-substituted phenyl-lower (C_1-C_4) alkyl, protected hydroxy-substituted phenyl-lower (C_1-C_4) alkyl,

lower (C_1-C_4) alkoxycarbonyl-substituted phenyl-lower (C_1-C_4) alkyl, oxygen-containing (C_1-C_8) straight chain or branched alkyl, or hydroxy-substituted (C_1-C_8) alkyl;

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene and

E is protected amino;

8) ① R^{11} is (C_1-C_9) alkyl, and

R^{12} is protected hydroxy-substituted (C_1-C_8) alkyl, or

② R^{11} is nitrogen-containing heterocyclic radical-substituted lower (C_1-C_4) alkyl, and

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene and

E is protected amino;

C9 cont.

9) R^{11} is protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or protected amino-substituted (C_1-C_6) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is hydrogen;

10) R^{11} is aryloxy-substituted lower (C_1-C_4) alkyl, (C_3-C_7) cycloalkyl-substituted lower (C_1-C_4) alkyl, arylsulfonamido-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, alkylsulfonamido-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino;

11) R^{11} is phenyl-lower (C_1-C_4) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

① when R^{12} is (C_3-C_9) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino;

C2 cont.

② when R^{12} is unsubstituted or optionally substituted aryl-lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is (C_1-C_6) alkylene,

A is imino and

E is protected amidino; or

③ when R^{12} is (C_3-C_9) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene, and

E is protected amino;

12) R^{11} is protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,

R^{12} is (C_3-C_9) alkyl,

R^{13} is lower (C_1-C_4) alkyl,

R^{14} is -X-Y, and Y is -E,

wherein X is (C_1-C_6) alkylene, and

E is protected amino;

13) R^{11} is protected amino-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is di-lower (C_1-C_4) alkylamino-substituted lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene, and
E is protected amino;

14) R^{11} is protected guanidino-substituted phenyl-lower (C_1-C_4) alkyl, protected guanidino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl, or protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is (C_1-C_6) alkylene, and
E is protected amino; or

C 9 cont.

15) R^{11} is protected amino-substituted lower (C_1-C_4) alkyl-substituted phenyl-lower (C_1-C_4) alkyl,
R^{12} is (C_3-C_9) alkyl,
R^{13} is lower (C_1-C_4) alkyl,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene, and
E is cyano;

or a salt thereof.

22. The compound according to claim 21, wherein R^{10} is tert-butyl, and R^6, R^7 and R^8 are each hydrogen,

1) R^{11} is methyl,
R^{12} is isobutyl,
R^{13} is methyl,
R^{14} is -X-Y and Y is -A-B, -A-E or -E
wherein X, Y, A, B and E are selected from the following combinations:

① X is methylene or ethylene, Y is -A-E, A is imino and E is protected amidino;

② X is ethylene or trimethylene, Y is -E and E is protected amino;

③ X is phenylene, Y is -E, and E is cyano; and

④ X is phenylene, Y is -A-B, A is imino, and B is tetra-ethyl bis(phosphono)methyl;

C2 Cont.

2) R^{11} is methyl,
R^{12} is isobutyl,
R^{13} is 2-hydroxy-1-methylethyl or piperidyl,
R^{14} is -X-Y, and Y is -E,
wherein X is trimethylene,
E is protected amino;

3) R^{11} is methyl,
R^{12} is isobutyl,

① R^{13} is cyclopropyl,
R^{14} is -X-Y, and Y is -E,
wherein X is ethylene and
E is protected amino;

② R^{13} is morpholino,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene, and
E is cyano;

4) R^{11} and R^{12} are each isobutyl,
R^{13} is protected 2-carboxyethyl, 2-dimethylaminoethyl or protected 2-hydroxyethyl,
R^{14} is -X-Y,
wherein X is phenylene and
Y is -E, and E is cyano;

5) R^{11} and R^{12} are each isobutyl,
① when R^{13} is 2-hydroxy-1,1-dimethylethyl,
R^{14} is -X-Y,
wherein X is phenylene and
Y is -E, wherein E is cyano;

C2 COOEt.

② when R^{13} is methyl,
R^{14} is -X-Y,
wherein X is methylene or ethylene, and
Y is -A-E,
wherein A is imino and
E is protected amidino;

6) R^{11} is phenylpropyl,
R^{12} is isobutyl,
① R^{13} is methyl,
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene and
E is cyano; or
② R^{13} is 2-dimethylaminoethyl, protected 2-hydroxyethyl or methyl,
R^{14} is -X-Y, and Y is -E,
wherein X is trimethylene, and
E is protected amino;

7) R^{11} is morpholinopropyl, protected carboxyphenylpropyl,

protected aminomethylphenylpropyl, protected hydroxyphenylpropyl, methoxycarbonylphenylpropyl, piperidinylpropyl, iso-butyloxyethyl, butoxyethyl, ethoxyethoxyethyl or protected hydroxyoctyl,

R^{12} is isobutyl,

R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is trimethylene and

E is protected amino;

8) ① R^{11} is isobutyl, and

R^{12} is protected hydroxyoctyl, or

② R^{11} is (3,4,4-trimethyl-2,5-dioxo-imidazolidin-1-yl)-propyl, and

R^{12} is isopropyl,

R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is trimethylene and

E is protected amino;

C2 cont.

9) R^{11} is protected aminomethylphenylpropyl, protected aminomethylbenzyl, or protected aminopentyl,

R^{12} is isobutyl,

R^{13} is methyl, and

R^{14} is hydrogen;

10) R^{11} is phenoxyethyl, cyclohexylpropyl, toluenesulfonamido-methylbenzyl, methanesulfonamidomethylbenzyl or phthalimidomethylbenzyl,

R^{12} is isobutyl,

R^{13} is methyl, and

R^{14} is -X-Y, and Y is -A-E,

wherein X is ethylene,

A is imino, and

E is protected amidino;

11) R^{11} is phenylpropyl,

R^{13} is methyl,

① when R^{12} is isobutyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is methylene,

A is imino, and

E is protected amidino;

② when R^{12} is naphthylmethyl,

R^{14} is -X-Y, and Y is -A-E,

wherein X is ethylene,

A is imino, and

E is protected amidino; or

C2 CO2H.

③ when R^{12} is isopropyl,

R^{14} is -X-Y, and Y is -E,

wherein X is trimethylene, and

E is protected amino;

12) R^{11} is protected aminomethylphenylpropyl,

① R^{12} is isobutyl,

R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is methylene or ethylene, and

E is protected amino;

② R^{12} is isopropyl,

R^{13} is methyl,

R^{14} is -X-Y, and Y is -E,

wherein X is ethylene, and

E is protected amino;

13) R^{11} is protected aminophenylpropyl,
R^{12} is isobutyl,
R^{13} is dimethylaminoethyl,
R^{14} is -X-Y, and Y is -E,
wherein X is trimethylene, and
E is protected amino;

14) R^{11} is protected guanidinophenylpropyl, protected guanidinomethylphenylpropyl or protected aminomethylbenzyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is -X-Y, and Y is -E,
wherein X is ethylene, and
E is protected amino; or

15) R^{11} is protected aminomethylbenzyl,
R^{12} is isobutyl,
R^{13} is methyl, and
R^{14} is -X-Y, and Y is -E,
wherein X is phenylene, and
E is cyano.